



Material Content Data Sheet



Sales Product Name		IPP60R160P6		Issued		11. September 2014		
MA#		MA001113394						
Package		PG-TO220-3-1		Weight*		2033.87 mg		
Construction Element	Material Group	Substances	CAS# if applicable	Weight [mg]	Average Mass [%]	Sum [%]	Average Mass [ppm]	Sum [ppm]
chip	inorganic material	silicon	7440-21-3	9.747	0.48	0.48	4793	4793
leadframe	non noble metal	iron	7439-89-6	0.816	0.04		401	
	inorganic material	phosphorus	7723-14-0	0.245	0.01		120	
	non noble metal	copper	7440-50-8	815.335	40.08	40.13	400877	401399
wire	non noble metal	aluminium	7429-90-5	2.620	0.13	0.13	1288	1288
encapsulation	organic material	carbon black	1333-86-4	5.886	0.29		2894	
	plastics	epoxy resin	-	111.839	5.50		54988	
	inorganic material	silicondioxide	60676-86-0	470.900	23.15	28.94	231529	289411
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10552	10552
plating	non noble metal	nickel	7440-02-0	0.244	0.01		120	
	inorganic material	phosphorus	7723-14-0	0.001	0.00	0.01	1	120
solder	non noble metal	antimony	7440-36-0	0.455	0.02		224	
	noble metal	silver	7440-22-4	1.136	0.06		559	
	non noble metal	tin	7440-31-5	2.955	0.15	0.23	1453	2236
heatspreader	non noble metal	iron	7439-89-6	0.590	0.03		290	
	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	copper	7440-50-8	589.466	28.98	29.02	289824	290201
*deviation	< 10%		Sum in total:			100.00		1000000

Important Remarks:

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3. All statements are based on our present knowledge, are provided 'as is' and may be subject to change at any time due to technical requirements and development without notification.

This product is in compliance with EU Directive 2011/65/EU (RoHS) and does not use any exemption.

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